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- Read the instructions and the MCQ Response Form carefully.
- 2. Choose the Single Best Answer for each question.

B) The relaxation of the muscles of the diaphragm

A) Luteinizing hormone

B) Follicle stimulating hormone

Q.6

3. Candidates are strictly prohibited from giving any identification marks except Roll No. & Signature in the specified columns only .

FILL YOUR PAPER ID IN THE RESPONSE FORM

- 1. The Question paper ID of each candidate is printed on the first page of his/ her Question Paper Booklet.
- 2. The candidates are only required to fill the correct circle in the Response Form against the first row of circle marked as ID as indicated in the figure.
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BIOLOGY

Q.1	In chemiosmosis the proton (H ⁺) pumps	moves from
	A) Stroma to Lumen B) Stroma to cytoplasm	C) Lumen to Stroma D) Cytoplasm to Stroma
Q.2	Microtubule subunits (for spindle fibers)	are synthesized in phase.
	A) G ₂ B) M	C) S D) G ₁
Q.3	If stimulation is above, impulationg the sensory neuron.	lses travel to the brain
	A) Action Potential B) Threshold	C) Resting Potential D) Recovery Period
2.4	Substances responsible for increasing the	ne set point of the hypothalamus are called:
	A) Pepsin B) Pyrogens	C) Prions D) Androgens
.5	During inspiration the space inside the	chest cavity is increased due to:
	A) Increased pressure B) The relaxation of the muscles of the diaphragm	 C) Relaxation of the external intercostal muscles D) The contraction of the muscles of the diaphragm

Which of the following hormone stimulates the ovulation from the follicle into oviduct?

C) Estrogen

D) Progesterone

Paper ID : A The covalent bond or bridge between two monosaccharides to form a disaccharide is C) Hydrogen bond D) Glycosidic bond Q.7 called a: A) Carboxyl bond B) Hydroxyl bond Site of protein synthesis is: C) Golgi body Water and Minerals move down their concentration gradient through plasmodesmata, 0.8 Water and Minerals move down their concentration gradient through plasmodesmata, to cells of cortex, endodermis, pericycle and then to sap in the xylem cells. This is also Q.9 C) Vacuolar pathway D) Apoplastic pathway known as the Given below is the diagram of nephron without vascular supply. A) Symplastic Pathway Q.10 What is name of Part C? C) Distal tubule D) Loope of Henle A) Collecting tubule B) Proximal tubule Xerophytes have small thick leaves to: C) Limit water loss by reducing the surface area 0.11 D) Limit water loss by increasing the surface area A) Help them float on water B) Help them survive in salty environment Among followings which cellular organelle contains circular DNA similar to those found Q.12 in bacteria? C) Chloroplast A) Ribosome D) Nucleus B) Lysosome A person was married to his cousin and both are heterozygous for sickle cell anemia. Among their four kids, what will be proportion of affected homozygotes? 0.13C) 75% A) 50% D) 100% B) 25% The route of urine excretion from kidney to outside of body is: Q.14 C) Kidney→ureter→urethra→urinary bladder A) Kidney→ureter→urinary bladder→urethra D) Kidney→urethra→urinary bladder→ureter B) Urinary bladder→ kidney→ureter→urethra The phase of mitosis in which sister chromatids move towards opposite poles: Q.15 A) Prophase C) Telophase B) Anaphase D) Metaphase The Plasmid pBR322 has antibiotic resistance genes for: Q.16

C) Doxycycline and Ampicillin

D) Ampicillin and Tetracycline

Paper ID : A

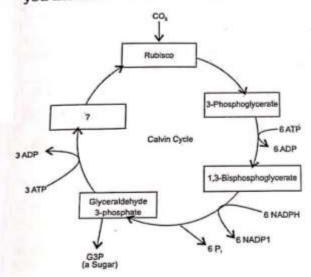
A) Tetracycline and Doxycycline

B) Streptomycin

The nitrogen containing bases in nucleotide are of two types; Purines and Pyrimidines; Q.17 the purines bases are:

 A) Guanine and Cytosine B) Adenine, Guanine and Cytosine C) Adenine and Guanine D) Adenine and Thymine

The following flowchart depicts the steps of the Calvin Cycle. Which option according to Q.18 you fits in as the correct answer of the missing step?



- A) Hydrogenase
- B) Oxaloaccetate

- C) Ribulose bisphosphate
- D) Pyruvate

Q.19 DNA polymerase enzyme for PCR is isolated from bacteria Thermus aquaticus because:

- A) It can withstand high denaturation temperature.
- C) It can work at high speed
- B) It can withstand low denaturation temperature.
- D) It can be used again and again.
- The type of energy reduced by the enzymes for biological reactions to occur is called Q.20
 - A) Light Energy

C) Active energy

B) Activation energy

D) Heat energy

Q.21 The function of calcium ions in muscle contraction is to:

- A) Bind to troponin molecule and cause them to move
- C) Polarize visible light
- D) Bind to tropomyosin molecule and cause them to form

B) Aid in the transmission of nerve impulse cross bridges

- What is common in both Competitive and Non- Competitive Inhibition? Q.22
 - A) Irreversible Inhibition

C) Reversible Inhibition

B) Feedback Inhibition

- D) Non-Reversible Inhibition
- Inside ovary, primary oocyte divides through first meiotic division forming two haploid Q.23 cells, secondary oocyte and:
 - A) Polar body

C) Follicle cell

B) Oogonium

D) Ovum

Q.24 Homozygous means:

A) having two identical alleles of a gene.

C) alleles in an organism

B) having two identical genes

D) two different alleles of a gene.

		Paper ID : A
Q.25	Which hormonal pair would n implantation of embryo?	naintain the endometrium and make it receptive for
	A) Luteinising Hormone and Progesteron B) Estrogen and Follicle Stimulating Horn	e C) Luteinising Hormone and Follicle Stimulating Hormone D) Estrogen and Progesterone
Q.26	Starch is present in tubers 6	ruits and grains but absent in animal cells, instead red in liver and muscles known as:
	A) glucose B) glycogen	C) galactose D) glucagon
Q.27	Now-a-days every new born g	ets regular shots of vaccine for polio. It contains take a child immune against this disease.
	A) Antisera B) Antibodies	C) Antibiotics D) Antigens
Q.28	Which of the following blood	l vessels contain semilunar valves?
	A) Arteries B) Veins	C) Arterioles D) Capillaries
Q.29	The main neurotransmitter nervous system.	for synapses is which lie outside the central
	A) Choline B) Acetylcholine	C) Acetaldehyde D) Phosphatidylcholine
Q.30	The thick filaments in a my	ofibril of muscles are made of
	A) Haemoglobin B) Myoglobin	C) Actin D) Myosin
Q.31	The prokaryotes possess sm	nall ribosome of size:
	A) 40S B) 70S	C) 65S D) 60S
Q.32	The structure present in a	eukaryotic cell but absent in prokaryotic cells is
	A) Nucleus B) DNA	C) Ribosomes D) Cell surface membrane
2.33	The process in which a con RNA Polymerase in the nuc	plementary copy of the code from a gene is produced by cleus:
	A) Proof reading B) DNA Replication	C) Transcription D) Translation
Q.34	Sara is a chemistry student acetic acid in the laborator	t who is carrying out an experiment between an alcohol and the product formed at the end of the experiment will be
	A) Glucose and oxygen B) Glycogen and water molecule	C) An ester and water molecule D) Glycerol and Sulfuric acid
Q.35	In genetics, the term locus	s refers to the of the gene on the chromosome.
	A) Frequency B) Copy	C) Position D) Inversion
Q.36		erved under light microscope using 5X eyepieces and $10^{ m N}$ age size will be:
	A) 250μm B) 50μm	C) 750µm D) 500µm

		Paper ID: A
Q	Which enzyme is administered to the patient immunodeficiency Disease (SCID)?	ats of Severe Combined
	A) Pancreatic Enzyme B) Adenosine Deaminase (ADA)	C) β-galactosidase D) β-lactamase
Q.	38 Change in frequency of alleles that occurs l	by chance is called as:
	A) Natural selection B) Migration	C) Mutation D) Genetic drift
Q.	The finger like infoldings which are formed called:	by inner membrane of mitochondria are
	A) Matrix B) Porin	C) Cristae D) Ribosomes
Q.4	O The main nitrogenous excretory product of	humans is:
	A) Uric acid B) Ammonia	C) Urea D) Ammonium
Q.4	Smooth endoplasmic reticulum is responsi	ble for the metabolism of :
	A) Carbohydrates B) Proteins	C) Nucleic acids D) Lipids
Q.42	Acetylecholine and Noradrenaline are two system.	types of used in our nervous
	A) Hormones	C) Enzymes
	B) Channel and carrier proteins in the cell membrane of a Neurone.	D) Neurotransmitters
Q.43	The reflex action is the phenomena which	only involves:
	A) brain, receptors, spinal cord B) receptors, effectors and spinal cord	C) receptors, neurons, brain D) receptors and effectors
Q.44	In which situation, Genes are not assorted chromosome?	independently during Meiosis in a
	A) When genes are not linked and their loci are far apart.B) When there are too many Genes on a chromosome.	C) When some genes have mutated on the chromosome. D) When genes are linked and their loci are close to each other.
Q.45	A person got an infection, he became ill by type of immunity he would have developed	ut then he survived. What do you think which !?
	A) Naturally induced active immunity B) Artificially induced active immunity	C) Active immunity D) Passive immunity
Q.46	During spermatogensis, the, was spermatozoa/mature sperms:	which are haploid cells eventually mature int
	A) Secondary spermatocytes B) Primary spermatocytes	C) Spermatogonia D) Spermatids
Q.47	Transgenic mice have been used to produ	ce:
	A) Protein rich milk B) A growth hormone	C) Protein rich meat D) Extra hair
2.48	According to the theory of natural selection	on, organisms produce:
	A) More offspring than supported B) Less offspring than supported	 C) Offspring according to the resources available D) Offspring to create resources

			Paper ID : A
		igments of plants are arranged tion centers of these clusters	as clusters in thylakoid
		igments of plants are arranged ction centers of these clusters (C) Glucose (D) Carote	consist of molecules
	The photosynthetic p	igments of planting in these clusters	Lucy
	Q.49 The photosynthemen of the read	C) Glucos	
	menze	D) Carote	noids
	A) ATP		in N ¹⁵ medium to N ¹⁴ medium for two rounds of replication?
	В) Спогорнул	fow bacteria grown	in N ¹³ medium to N ¹⁴ medium for er two rounds of replication?
	.50 Meselson and Stahl to	ransferred lew be the result an	et two 1- arresult.
	replicating their DNA		COLUMN CO
	* * * * * * * * * * * * * * * * * * *	Washt duplex D) 100%	hybrid duplex
	A) 50% hybrid duplex and 50% B) 50% hybrid duplex and 50%	heavy duplex	to the neurons incres-
	B) 50% hybrid dupies -		ons in the neurons increases due to.
0	51 In an action potential	, the permendance	ons in the neurons increases due to:
Q.		C) The ac	n ions forming an ionic bonding
	 A) Repolarization B) The opening of sodium char 	nnels/gates	
	B) The opening of sources		
	During the G2 phase:		
Q.:	oz During the	DNA base units are C) Chrom	osome number is duplicated
	 A) Specific enzymes are synthe 	SIZEG GALL	is stored for Chromosome movement and
			roteins (Tubulin) are produced
	B) The chromosomes are left w	Ith only	
		1 - lun o	f actin molecules.
Q.5	3 Thin filaments of muse	cles contain	
4.0		C) Three	
	A) Four	D) Two	
	B) One	79-79-1 AA 20-79-1-79-1-79-1-79-1-79-1-79-1-79-1-79-	
0.5	which cell organelle is	s responsible for cell secretic	on?
Q.54	which cen organicae		
	A) Mitochondrion	C) Ribos D) Golgi	
	B) Chloroplast	D) Goigi	body .
Q.55	Most proteins are mad	e up oi:	
		C) 170 to	pes of Amino acids
	 A) 16 types of Amino acids B) 10 types of Amino acids 	D) 20 tyr	oes of Amino acids
	B) 10 types of Amino acids		
2.56	A disease caused by gr	adual breakdown of the thir	walls of alveoli is .
2.50	A discuse chasea by gr		
	A) Tuberculosis	C) Emph	ysema
	B) Asthma	D) Brond	
.57	If sequence in DNA is (CCCTAGAG, then what woul	d be the sequence in messenger RN
16	after transcription?		
	•		
	A) GGGAUCUC	C) GGG	STCTC
	B) GGGATCTC	D) GGA	
0.024-704-007	42011 - B W W W W		
Q.58	Taxonomy includes the	arrangement of organisms	into different taxa. Which of the
	following represents the	e correct hierarchy of waris	ous taxa of classification?
			ous taxa of classification:
	A) Species, genus, family, order,	class, phylum	A
	B) Order, family, class, phylum, k	ingdom	ies, genus, order, family, class, phylum
		D) Spec	ies, genus, family, class, order, phylum
Q.59	Complementary DNA m	olecule is	
	A) an artificial DNA		
	B) single stranded DNA	C) DNA	from mRNA
0.00		D) a sm	all segment of chromosomal DNA
Q.60	Capsid, the protective c	oat of a vi	of subunits known a
	capsomeres.	of a virus is made up of	of subunits known a
		C) RNA	Subuni
	A) Lipid		
	B) Protein	D) DNA	

		Paper ID : A
Q.61	In plants, which sugar is transported from	source to sink through sieve tubes?
Q.01	A) Fructose B) Sucrose	C) Glucose D) Starch
Q.63	hamanbilia famala (VHyh) is	married to a haemophilic male (X ^h Y). What lia in the children. Select best answer from
	XHXh x XhY	
	male and 25% haemophilic male.	C) females and males both have 50% chances of getting haemophilia mal D) females have 50% chances of getting haemophilia and males will be 100 % haemophilic
Q.64	As a result of replication, parental DNA we each strand of all the daughter molecules is called as:	would become completely dispersed and that s would be a mixture of old and new DNA. This
	A) Conservative idea B) Dispersive idea	C) Disruptive idea D) Semi-conservative idea
Q.65	A student of chemical engineering mistal was a potent inhibitor of certain enzyme. where Dr. injected intravenously substrate. A. His life was saved from serious damage compound A was a inhibitor.	kenly engulfed the toxic compound "A"which . He was immediately brought to hospital te "B" to minimize the toxic effect of compound ges. The treatment method shows that
	A) Temperature sensitive B) Competitive reversible	C) Irreversible D) Non-competitive reversible
Q.66	warm climate with continuous rainfall, p	ronmental conditions. Plant A is present in plant B is present in a cool forest, plant C is be while plant D is present in warm climate with the plants will have highest rate of transpiration?
	A) Plant B B) Plant D	C) Plant C D) Plant A
Q.67		le chain of protein molecule corresponds to the nat protein. If reading frame of mRNA for a ing a stop codon at the end, how many amino peptide chain?
	A) 331 B) 993	C) 93 D) 330
Q.68	The major function of Basophils is to:	
	A) Destroy small particles by phagocytosis B) Release heparin to prevent blood clotting	C) Inactivate inflammation producing substances D) Transport oxygen
Q.69	Large lymph vessels ultimately form lar	ger lymph duct, which drains its lymph into:
	A) Carotid and Aorta B) Vena Cava and Aorta	C) Subclavian Vein D) Subclavian Artery
Q.70	Blood group AB is an example of	
	A) Complete dominance B) Recessive alleles	C) Incomplete dominance D) Co-dominance
Q.71	Passive processes for the movement of	molecules across cell surface membrane are:
	A) facilitated diffusion and osmosis B) pinocytosis and facilitated difusion	C) diffusion and exocytosis D) osmosis and phagocytosis

		C) hydrogen	
Q.71	In glycine R is	D) methane	
	A) fatty acid B) ethane of	cell.	
Q.72	leas in the	C) Cytoplasm D) Mitochondria	
Q.72	A) Golgi complex B) Nucleus Lipids contain double amount of energy earbohydrates due to the presence of:	as compared to the same amount of	of
	B) Nucleus	· of CO bonds	
Q.73	Lipids contain double amount of end carbohydrates due to the presence of:	C) Higher proportion of C-O bonds D) Higher proportion of Oxygen	
	A) Lower proportion of C-H bonds B) Higher proportion of C-H bonds If water has high latent heat of vapourished to plants and animals?	sation, how this property of water	could be
THE STATE	as meter has high latent heat of vapous	10.000 Aug. 10	
Q.74	helpful to plants and animais:	small C) It will keep their temperature very hig	ater vanous
	If water has high latent heat of helpful to plants and animals? A) With the release of large amount of water vapours, a amount of heat loss can take place. B) No cooling effect with the release of even large amount of the place with the release of even large amounts.	unt of D) With the release of small until the small until the control of D) with the release of small until the control of D) with the release of small until the control of D) with the release of small until the control of D) with the release of small until the control of D) with the release of small until the control of D) with the release of small until the control of D) with the release of small until the control of D) with the release of small until the control of D) with the release of small until the control of D) with the release of Small until the control of D) with the release of Small until the control of D) with the co	assours, a pag
	amount of heat loss can take place. B) No cooling effect with the release of even large amount vapours. How many molecules of ATP would be the second of t	itilized for phosphorylation of one	glucose
	How many molecules of ATP would be		
Q.75	How many molecules objectives molecule during glycolysis?	C) Two D) Three	
		D) times	unodeficieno
	B) Four enzyme	is naturally found in human imn	- anodenciency
Q.76	Among followings,	· ·	
	virus (HIV).	C) Reverse transcriptase	
	A) DNA polymerase B) RNA polymerase The structure of a fibrous protein com	D) Ligase	he form of:
Q.77	The structure of a fibrous protein com	C) Spherical or curled up ball	
ζ	A) Cluster B) Flat uncoiled chains	D) Long strands or fibrils	
Constitution and Co	Which is an example of a Disaccharid	e:	
Q.78		C) Starch	
	A) Lactose B) Glycogen	D) Fructose	
Q.79	Which one is an example of a Nucleot	tide?	
	A) Adenosine	C) Guanine D) NAD	
+	B) ATP	F74.40.01 B. 10.00.00.	horylation?
Q.80	Which of the following photosystem	is involved in cyclic photophosp	norj.mas
	A) PS I and PS II B) PS II	C) PS III D) PS I	
		CHEMISTRY	
		TAX AND	the agueous
Q.81	Which product is obtained by the hy sodium hydroxide?	drolysis of 1- chlorobutane wit	h the aque
	A) 1-butanol	C) Butanone	
	B) 1- butene	D) 1- butanal	
Q.82	Treatment of ethene with cold sulpl yields:	nuric acid followed by reaction	with boiling w
	A) Ethane		
	B) Ethyne	C) Ethanal D) Ethanol	

				10 -nd 11
2.83	The average atomic respectively. What is	nass of Boron is the percentage o		wo isotopes of masses 10 and 11 h the average mass of 10?
	A) 20% B) 50%		C) 60% D) 80%	11 1 to convert
Q.84	In contact process, to it to sulphuric acid?	which substance	ce adequate q	quantities of water is added to convert
	A) SO ₃ B) H ₂ S ₂ O ₇		C) SO ₂ D) HSO	4
2.85	Which of the equation as the following equations:	ns shows the sa ation	me "twice" tl	ne enthaply change of neutralization
		HCl + NaOH		
	A) NH ₄ Cl +NaOH → NaCl + B) MgCO ₃ + 2HCl → MgCl ₂		D) H2S	$H + HCI \rightarrow KCI + H_2O$ $O_4 + Mg(OH)_2 \rightarrow MgSO_4 + 2H_2O$
2.86	The decomposition of place by the following	of phosphorus po ng mechanism:	entachloride	in the presence of moisture takes
	PCl ₅ (s) + H ₂ O (l)	→ POCl ₃ (l)	+ 2HCl (aq)	(Slow Step)
	POCl _{3 (1)} + 3H ₂ O (1)	→ H ₃ PO ₄ (1)	+ 3HCl (aq)	(Fast Step)
	PCl ₅ (s) + 4H ₂ O (l)	→ H ₃ PO ₄ (1)	+ 5HCl (aq)	
.87	The rate equation for	r this reaction	will be:	
	A) Rate = k [PCl ₅][H ₂ O] B) Rate = [PCl ₅][H ₂ O]		C) R D) R	ate = $k [POCl_3][H_2O]^3$ tate = $k [PCl_5][H_2O]^4$
	The names of functi	onal groups in	the followin	g compound X are;
88	NCCH ₂	O CH	H(OH)CH₃	
		5-	C	Secondary alcohol, amine and benzene ring
	A) Primary alcohol, nitrile a B) Secondary alcohol, nitril	nd benzene ring e and phenol ring	Di	Secondary alconol, mulic diss
	The second secon	of a che	emical react	tion is very low, the rate of that chemical
89	If the energy of act reaction is observed	to be very high	gh because	?
	with	out any transition sta	ate D	Molecules of the reactants move slowly
	B) Number of efficient of in		s will give a	a secondary alcohol after reaction with
90	Which of the follow	ing compound	13 1122 5	
30	NaBH4?		1	C) CH2CH2COOH
	A) CH ₃ COOCH ₃ B) CH ₃ COCH ₃		19	D) CHaCHaCHO
91	Copper is a typical does it have partial	transition me lly filled orbita	tal. Its aton il in d-subs	nic number is 29. In which oxidation state hell?
JI	does it have purtice	U.F. Dec		C) Cu
	A) Cu ²⁺ B) Cu ⁻			D) Cu ⁺

		c) PCI5
		at is required for P
	sake following reager	TE
Q.	91 Which of the load? from ethanoic acid?	c) PCIS D) CH3Cl enthalpy changes during a chemical reaction.
	- ocla	during a chemical reaction.
	A) POCIS B) HCl	enthalpy changes deliberation
	dagram shows the	
Q.9	2 The given mag-	
	A	
	Reactants H,	
	1	
	Increasing Enthalpy	
		Η,
	Products.	
		is an otion
	This diagram represents:	C) An endothermic reaction D) An exothermic reaction
	A) A non-spontaneous process	D) An exometimes round
	B) An isothermic process	own the group from top to bottom due to: C) Increase in shielding effect of the intervening electrons
	decreases de	own the group from 507
Q.93	Ionization energy decision	C) Increase in shielding effect of the intervening electrons
	A) Increase in proton number	D) Increase in atomic mass
100	B) Decrease in atomic size	but they do not react with each
	- and overen are	present in atmosphere but they do not react with each s, because:
Q.94	Free Nitrogen and oxygen are other under normal conditions	
	 A) Oxygen is found in less concentration. B) Nitrogen requires a catalyst. 	D) Oxygen is very mactive.
	fl-mmono C	hows maximum reactivity in electrophilic substitution
Q.95	Which derivative of benzene's reactions?	
	Etto SAGO PA ANGUACO E SAGO AO No and tabulat sago and the Angual Sago Maria	C) Nitrobenzene
	A) Benzoic acid B) Benzaldehyde	D) Methyl benzene
	B) Belizaideliyae	and alcohols on industrial
Q.96	Which of the following reaction	ons is used for the production of alcohols on industrial
4.00	scale?	
		C) Hydrohalogenation of alkenes
	A) Hydrogenation of alkenes	D) Hydration of alkenes
	B) Hydroxylation of alkenes	
Q.97	The pH of 10 ⁻² M aqueous sol	ution of sodium hydroxide is
	A) 12	C) 13
	B) 10	D) 14
	•	
Q.98	In the reaction sequence:	
	H ₃ C -CH ₂ -CH ₂ -Br + Alc KOH -	H ₂ SO ₄
	130 OHZ OHZ DIT MICKUH -	

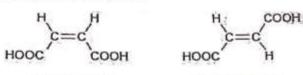
Product D will be

A) 2-propanol

B) 1-propanol

- C) Propanoic acid D) Mixture of methanol and ethanol
- What is the measure of activation energy in an endothermic reaction? Q.99
 - A) The energy of activation of forward reaction is less than that of backward reaction.
 - B) The energy of activation of forward-backward reaction is
- C) The energy of activation of backward reaction is less that that of forward reaction
- D) The energy of activation of backward reaction is more than that of formard than that of forward reaction.

Q.100 Maleic acid and Fumaric acid, both have chemical formula C4H4O4. The structure of these acids is shown below.



Maleic acid

Fumaric acid

Maleic acid and Fumaric acid are:

 A) Position isomers B) Structural isomers C) Metamers D) Cis-trans isomers

- Q.101 Alkenes undergo:
 - A) Nucleophilic substitution B) Nucleophilic addition

- C) Electrophilic Addition D) Electrophilic substitution
- Q.102 Nitriles (RCN) on hydrolysis in the presence of a mineral acid yield:
 - A) Ethers
 - B) Carboxylic acids

- C) Aldehydes D) Alcohols
- The K_a values of HCl, CH₃COOH, HF and H₂SO₄ are 10^{+7} , 1.85×10^{-5} , 6.7×10^{-5} and Q.103 10⁺² respectively. The decreasing order of acidic strength is:
 - A) $HCl > HF > H_2SO_4 > CH_3COOH$
 - B) HCl > CH3COOH > HF > H2SO4

- C) HCl > H₂SO₄ > HF > CH₃COOH D) CH₃COOH > HF > H₂SO₄ > HCl
- Q.104 Which of the following will give a positive test with Tollen's reagent?
 - A) Aldehydes
 - B) Tertiary Alcohols

- D) Carboxylic Acids
- Select the reagent X from the following choices for this conversion; 0.105

- A) Acidified Phosphoric acid
- B) Acidified Oxalic acid

- C) Acidified Potassium hydroxide
- D) Acidified Potassium dichromate (VI)
- Q.106 which of following compounds is responsible for the depletion of ozone layer?
 - A) Carbon tetrachloride
 - B) Choroflorocarbons

- C) Hydroflorocarbons
- D) Methane
- Which one the following compound is additional polymer? Q.107
 - A) Carbohydrate
 - B) Polyvinyl chloride

- C) Nylon
- D) Polyester
- Ketones can be made by oxidation of Q.108
 - A) Secondary Alcohols
 - B) Tertiary Alcohols

- C) Aldehydes
- D) Primary Alcohols
- Which of the following bond is responsible for joining the amino acids in proteins? 0.109
 - A) Ionic Bond
 - B) Metallic Bond

- C) Di sulfide bond
- D) Peptide Bond

Q.110	Identification tests for family	Paper ID : A
	specific observations. Tollen's reagent in used for the identification of a function	ps of organic compounds are associated with is ammonical silver nitrate solution, which is hal group X with an observation O. Identify X and
ŝ	A) X= Ketone O= grey precipitate B) X= Ketone O= Silver = 1	, and a second of the second o
		C) X=Aldehyde O= Silver mirror
Q.111	The structure of Xenon trioxide is show	D) X= Aldehyde O= red precipitate
	trioxide is show	vn below,
	0 × Xe	
	With reference to the Valence shell ele of XeO3 is;	ectron pair repulsion theory, (VSEPR) , the shape
	A) Trigonal purposides	
	b) letrahedral	C) Bent (or angular) D) Trigonal planar
Q.112	Which two elements are isotopes?	D) Highlai planar
	18 X and 20 Y A)	16 X and 16 Y
		C) By thin Bi
	14X and 15Y B)	12X and 12Y
	ы	D)
Q.113	According to Watson and Crick's mod helix. What type of forces are respons	el of DNA, the DNA molecule consists of a double sible to keep two strands of DNA together?
	A) Hydrogen bonding B) Dipole-induces dipole forces	C) van der Waal's forces D) Ionic bonding
Q.114	TOTCES, IL STADITIZES G-DAIL	a X is relatively stronger than the other inter x and β-pleated sheets of proteins. The double lized by this force of attraction. Identify X.
	A) Hydrogen bonding	C) Ionic interactions
	B) van der Waal's Forces	D) Dipole dipole attraction
Q.115	Which one of the following molecule	s has SP ³ hybridization?
	A) CH ₄ B) C ₂ H ₂	C) CO ₂
		D) C ₂ H ₄
Q.116	Oxidation number of particular elem	ent can be directly or indirectly inferred from its:
	A) Atomic mass B) Physical state	C) Group number D) Atomic size
Q.117	Which of the following sets constitution geometry?	tes of all the molecules and ions of non-planar
	A) PH ₄ ⁺ , NH ₃ , SO ₃ , Benzene B) CH ≈ CH, H ₂ O, BeCl ₂ , H ₂ S	C) SO ₂ , C ₂ H ₄ , BF ₃ , NO ₃ ⁻ D) CH ₄ , NH ₄ ⁺ , MnO ₄ ⁻ , NF ₃
Q.118	Nitrogen has the atomic mass of 7.	
	Which of the following electronic co	onfigurations is of a Nitrogen atom in ground state?

C) $1s^2$, $2s^2$, $2p_x^1$, $2p_y^1$, $2p_z^1$ D) $1s^2$, $2s^2$, $2p_y^2$, $2p_z^1$

A) 1s²,2s²,2p_x²,2p_y¹ B) 1s²,2s²,2p_x²,2p_z¹

Paper ID: A Q.119 CFC's are organic compounds, which are derivatives of saturated hydrocarbons. They have high bond dissociation values therefore they are inert and non toxic for the living The word CFC's stands for: A) Chlorofluoridecarbons C) Chlorofluorcarbides B) Carboflourochlorines D) Chlorofluorocarbons Q.120 Amino acids are bi-functional compounds, with a general formula NH₂CH(R)CO₂H. A tripeptide is formed between Alanine (ala), Glycine (gly) and lysine (lys). There is no repetition of amino acid in this tri-peptide, suggest how many tri-peptides are possible? C) 6 B) 3 D) 12 Which type of reaction takes place when a carbonyl compound is treated with a mixture Q.121 of NaCN and an acid? A) Substitution reaction C) Nucleophilic addition reaction B) Electrophilic addition reaction D) Displacement reaction Disposable cups are made of a polymer polystyrene. Polystyrene is: Q.122 A) A polyamide C) An addition polymer B) A condensation polymer D) A polyester During stoichiometric calculations, which of the following laws must be followed? Q.123 C) Avogadro's law A) Dalton's law D) Law of conservation of energy B) Law of conservation of mass Which of the following element is not present in halogens? Q.124 C) F A) CI D) Fe B) I Which enthalpy change is relevant in the following process 0.125 $\Delta H = +$ $Na(s) \rightarrow Na(g)$ C) Enthalpy of fusion A) Enthalpy of atomization D) Enthalpy of formation B) Enthalpy of vaporization Q.126 Which of the following substances exhibits hydrogen bonding? C) SiH4 A) HI D) NH₃ B) H₂S Q.127 Which balanced chemical equation show the formation of ethanoyl chloride using thionyl chloride? C) CH₃CH₂COOH + 2SOCl → CH₃CH₂COCl + SO₃ + HCl A) CH₃COOH + SOCl₂ → CH₃COCl + SO₂ + HCl D) HCOOH + SOCl₂ → HCOCl + SO₂ + HCl B) CH₃CH₂COOH + 2SOCl → CH₃CH₂COCl + SO₂ + HCl Q.128 The number of moles of water in 1Kg ice are

C) 50 moles

D) 55.5 moles

A) 100 moles

B) 1000 moles

129 For an equilibrium reaction;

the forward reaction is exothermic, increase in temperature shifts the equilibrium position toward α C) the concentrations of SO2 and O2 increase and C) the concentration of SO3 stays same as the temperature position towards left because,

A) the concentrations of SO₂ and O₂ decrease and concentration of SO₃ and O₂ decrease and concentration of SO₃ increases as the temperature increases

increases

D) the concentrations of SO₃, SO₂ and O₂ increase as the increases

D) the concentrations of SO₂ and O₂ increase and concentration of SO₃ decreases as the temperature increases temperature increases

$$E^{\circ} = -2.37 \text{ V}$$

$$Zn^{2+} + 2e^- \rightarrow Zn$$

$$E^{\circ} = -0.76 \text{ V}$$

$$E^{\circ} = 0.000 \text{ V}$$

$$E^{\circ} = + 0.34 \text{ V}$$

$$E^{\circ} = + 1.36 \text{ V}$$

$$E^{\circ} = + 1.50 \text{ V}$$

Keeping in view the values of standard reduction potential given above, which one of the following would you select as a feasible redox chemical reaction?

A)
$$Mg + 2H^+ \rightarrow Mg^{2+} + H_2$$

B) $Cu + Zn^{2+} \rightarrow Cu^{2+} + Zn$

C)
$$2C\Gamma + I_2 \rightarrow Cl_2 + 2\Gamma$$

D) $2Au + 6H^+ \rightarrow 2Au^{3+} + 3H_2$

Modern periodic table is arranged in ascending order of? 2.131

A) Atomic mass

C) Mass number

B) Proton number

D) Nucleon number

In the second period of elements, although oxygen lies next to nitrogen yet its ionization first energy is lower than that of nitrogen because? 0.132

A) Oxygen is paramagnetic in character.

- C) Nuclear charge of oxygen is greater than nitrogen.
- B) In oxygen, there exists repulsion between pair of electrons D) Oxygen has higher electron affinity. present in the same orbital of valence shell.

Chlorofluorocarbons (CFCs) are important compounds which are used as refrigerants Q.133but these are also responsible for Ozone layer depletion. If a Chlorofluorocarbon CFCl3 is present in stratosphere, which of it's reaction intermediates are actually responsible for the breakdown of Ozone molecule?

- A) CFCl2 and Cl
- B) Cl. and ClO.

- C) CFCl2 and ClO
- D) CFCl2, and CFCl3

Q.134Solution contains 85.5 g of sucrose (C12H22O11) in 250 cm3. What is its molarity?

A) 0.5 M B) 2 M

C) 0.25 M D) 1 M

Q.135 Which of the following is the electronic configuration of Cr?

- A) [Ar] 3d⁶ 4s⁰
- B) [Ar] 3d4 4s2

C) [Ar] 3d5 4s2 D) [Ar] 3d5 4s1

		Paper ID: A	
136	All the collisions between the particles of gase "Elastic Collisions"?	es are elastic in nature. What is meant by	
	A) No change in potential energy during the collisions B) The velocity of the molecules changes	No change in the kinetic energy No change in mass during the collisions	
.137	Aqueous solutions of Iodine and Sodium hydr at 70°C.Following chemical reaction was carr	oxide were mixed in a round bottom flask ied out.	
	3I ₂ + 6NaOH → NaIO ₃ + NaI +H ₂ O		
	This reaction is termed as		
	B) Free radical reaction	c) Precipitation reaction O) Substitution reaction	
.138 Carboxylic acids can be reduced into corresponding alcohols. Which of the following reagent can be used for this purpose?			
	B) K ₂ Cr ₂ O ₄	C) KMnO ₄ D) H ₂ SO ₄	
139	How many moles of calcium carbonate are present in 1.75 kg of calcium carbonate? (A_r of $Ca = 40$, A_r of $C = 12$, A_r of $O = 16$)		
	A) 0.0175 mol B) 1.75 mol	C) 17.5 mol D) 1750 mol	
.140	Which of the following molecule shows cis- trans isomers?		
	A) C ₂ HCl ₃ B) C ₂ H ₂ Cl ₄	C) C ₂ H ₄ D) C ₂ H ₂ Br ₂	
	PHY	SICS	
.141	Heavy nucleus of atoms go through fission so that they can:		
. 141	A) absorb high amount of energy B) absorb low amount of energy	C) increase their binding energy per nucleon D) reduce their binding energy per nucleon	
	For projectile motion in the absence of air	resistance:	
142	A) vertical speed is constant	C) horizontal acceleration is zero D) vertical acceleration is zero	
		the velocity of the projection and the angle of when the angle of projection is larger than	
.143	the projection i.e 45 . For a fixed versely,	when the angle of projection is larger than	
	45°. Which of the following is correct:	the aminotile will be less but the	
	A) Both the height and the range attained by the projectile	range is more.	
	will be less. B) Both the height and the range attained by the projectile	range is less.	
		ave having frequency of 3 kHz will be.	
.144		C) 100 km D) 120 km	
	A) 80 km B) 140 km	The state of the s	
.145	An alternation voltage V (in volts) is repr	esented by the equations	
	$V = 300 \sin (100\pi t)$		
	What is the value of "f" for this voltage?		
		C) 50 Hz D) 100 Hz	
	A) 25 Hz B) 200 Hz		

Paper ID : A .146 The diameter of a wire is measured by using a micrometer screw gauge with least count of 0.01 mm, then will be correct? of 0.01 mm, then which of the following readings will be correct? A) 0.067 cm D) 6.70 cm B) 0.0067 mm .147 Which of the following is statement shows that no work is done? C) Lifting the weights. D) The moon orbiting the earth. A) Pushing a car to start it moving B) Writing an essay on a page. When the length of simple pendulum is doubled, then ratio of its new time period to .148 old time period is: C) √2 A) 2√2 D) 1/V2 B) -√2 The direction of current through the load resistance of a full-wave rectification circuit: .149 C) inverts for positive cycle A) inverts for negative cycle D) remains constant B) changes for every cycle A wire has a spring constant of 5×10^4 N m⁻¹. It is stretched by a force to extension of .150 1.4 mm. Calculate the strain energy stored in the wire. C) 4.9×10^{-5} J A) 4.9×10^{-5} I D) 4.9×10^{-2} J B) 4.9 J If two objects of equal masses 'm' are moving towards each other with the same speeds .151 'v' then what will be the total final momentum after elastic head-on collision? C) 2 mv kg/s A) - mv kg/s B) mv kg m/s D) 0 kg m/s .152 Molecules of a gas at constant pressure for a fixed amount of gas have average kinetic energy X. Increasing temperature from 27°C to 327°C, average K.E. of molecules will become: A) 200X C) 300X B) 20X D) 2X .153 An automobile is moving forwards with uniform velocity due to the force exerted by its engine. If that force is double with the velocity remaining constant what happens to its total power? A) It does not change C) It is halved B) It is squared D) It is doubled In Double Slit experiment, the fringe spacing of the diffracted rays increases when: .154 C) the distance from mid points of the slits to the central A) the distance between the screen and the slits decreases point of the fringe on the screen increases B) the wavelength of the diffracted rays increases D) the distance between the slits increases The area under the extension-load graph of an elastic material whose elastic limit has .155 A) Stress C) Young modulus B) Strain energy D) Strain 2.156 Minimum energy required to eject an electron from metal surface is called: A) Work function C) Threshold frequency B) Stopping potential D) Electromotive force The unit of magnetic flux density is the tesla, 'T', it can also be expressed as 0.157 A) 1 N-1 A-1 m B) 1 N-1 A-1 m-1 C) 1 N A-1 m

D) 1 N A-1 m-1

Paper ID : A

Q.15	.158 Percentage un-certainty in length and width of a rectangle is 2% and 3%. The total uncertainty in area of that rectangle is?		
	A) 1.5% B) 5%	C) 6% D) 1%	
Q.15	9 What is the quark composition of a Pr	roton?	
	A) Two up quarks and one down quark B) One up quark and two strange quarks	C) Two up quarks and one strange quark D) Two down quarks and one up quark	
Q.1	60 What will be the expression for the obtained the observer?	oserved frequency, if the source is moving towards	
	$f_o = \left(\frac{v}{v - u_s}\right) f$ $f_o = \left(\frac{v}{v \pm u_s}\right) f$	$f_o = \left(\frac{v}{v + u_s}\right) f$ $f = \left(\frac{v}{v - u_s}\right) f_o$	
	$V_o = \left(\frac{v}{v \pm u_s}\right) f$	$f = \left(\frac{v}{v - u_s}\right) f_o$	
	B)	D) .	
Q.16	Work done due to centripetal force fo	r circular motion will be:	
	A) Reduced B) Maximum	C) Half D) Zero	
Q.16	2 If we give a direct current to the trans	sfomer's primary coil, then there will be:	
	A) Less emf produced in the secondary B) No emf produced in the secondary	C) Equal emf produced in the secondaryD) More emf produced in the secondary	
Q.163	The value and units of the Plank cons	tant 'h' can be expressed as:	
	A) 6.63 x 10 ⁻³⁴ Js ⁻¹ B) 6.63 x 10 ⁻⁴³ Js	C) 6.63 x 10 ⁻³⁴ Js D) 3.63 x 10 ⁻³⁴ Js	
2.164	A negligible small current between in because of:	put terminals of the operational amplifier is	
	A) Low input resistance B) Low output resistance	C) High output resistance D) High input resistance	
.165	If a conductor of length 7m is placed	in a magnetic field of strength	
	0.3T carrying current 1A, parallel to this magnetic field?	the field. What will be the force acting on it due to	
	A) 2.1 N B) 0 N	C) 3.1 N D) 7 N	
166	The horizontal component of Earth na horizontal cable is 160A. Calculate	nagnetic flux density is 1.8×10^{-6} T. The current in the maximum force per unit length?	
	A) 2.88× 10 ⁻⁴ N/m B) 2.88× 10 ⁻⁸ N/m	C) 2.88× 10 ⁻² N/m D) 2.88× 10 ⁻⁶ N/m	
167	If we change the magnetic flux linkin field, the rate of change of this flux is	g a coil by rotating the coil in a constant magnetic	
	A) Proportional to the emf produced in it B) Proportional to the change in magnetic field	C) Proportional to the resistance of the coilD) Proportional to the material of the coil	

		F and electric potential is V at a distance r
	seld strength of a point cha	rge is E and electric potential is V at a distance r lectric potential at a point for the same point is E/4? C) 4V D) 2V c) 4V D) 2V c) 4v C) 4v D) 2v c) 4v D) 2v c) 4v D) 2v c) 4v D) 2v c) 4v D) 2v
Q.168	Flectric field strength of a point from the point charge. What is the e charge where electric field strength	C) 4V D) 2V ation will be maximum, when object is at: C) mean position D) half of the maximum displacement from mean position
	A) V/4	vien will be maximum, when the
	B) V/2	C) mean position D) half of the maximum displacement from mean position
Q.169	In simple harmonic mean position	D) half of the maximum
	A) maximum displacement from the mean position B) center position Calculate the energy of a photon of	frequency 3.0 × 10 ¹⁸ Hz.
Q.170	Calculate the energy of a photos	
	10-34)	10 1
	$(h = 6.63 \times 10^{-34})$	C) 11.89 × 10 -16 J D) 19.89 × 10 -16 J
	A) 19.89×10^{-18} J B) 1.89×10^{-16} J In relation λ T _{1/2} = 0.693 , which	quantity is represented by λ?
0 171	In relation $\lambda T_{1/2} = 0.693$, which	C) activity
Q.1/ -	11 1-16 1/fo	D) decay constant
	A) half life B) wavelength Path difference for the destructive	totorference can be written as:
Q.172	Path difference for the destructive	interies = 2n(\lambda)
		f(x) = f(x) + f(x)
	A) $\Delta s = n \lambda$ B) $\Delta s = (n + 1/3) \lambda / 2$	-lite 1 00 mm apart
Q.173	If a light is emitted by a single soon. The interefence pattern is observed between the centres of adjacent by wavelength of the light?	arce passes through two narrow slits 1.00 mm apart. ed on a screen 200 cm away and the separation eight fringes is 2.00 mm. What would be the
	A) 2 µm B) 1 µm	D) 1 nm
Q.174	The sum of all forms of molecular termed as ?	energies (Kinetic and Potential) of a substance is
	A) Internal energy B) Elastic energy	C) Heat energy D) Absolute energy
2.175	Calculate the rate at which energy	y is transferred by 220 V mains supply which provides
	a current of 0.1 A to a LED?	
	A) 22 kW B) 2.2 kW	C) 22 W D) 2.2 W
2.176	A particle carrying a charge of 5e would be energy acquired by the	falls through a potential difference of 25V. What particle in 'J'.
3	A) 125 x 10 ⁻¹⁹ J	C) 125 x 1.6 x 10 ⁻¹⁹ J
III 9	B) 1.6 x 10 ⁻¹⁹ J	D) 125 J
.177	A copper wire has length L and collength and halved the diameter o	ross-sectional A. Its resistance is R. If we halved the of wire then what will be the resistance of this wire?
	A) R B) 3R	C) 2R D) 4R
.178	Kirchhoff's first law/rule corresp	onds to:
	A) Law of conservation of energy B) Law of conservation of charge	C) Law of conservation of momentum D) Law of conservation of mass

		Electric fold street		Paper ID : A
Q.	179	between plates is reduce	at a point between oppositely cha ced to half , what will be the new	arged plates is E. If the distance value of electric intensity?
		A) 4E B) E/2	C) E/4 D) 2E	
0.	180	An object is moving alo displacement if it move	ong a circular path of radius 4m. es 14m on this circular path?	What will be its angular
		A) 5.5 radians B) 3.5 radians	C) 5.0 radians D) 4.5 radians	
			ENGLISH	
		Part - I : Choose THE BES		
Q.1	81	The accident happened	due to the driver's	
		A) Nuisance B) Negligence	C) Reluctance D) Regret	
Q.1	82	They sometimes feel a -	for the mountains and the s	sea.
		A) Yearning B) Yelling	C) Yielding D) Yapping	7
Q.18	3 1	caution in interpr	eting these results.	
) Uproot) Usher	C) Usurp D) Urge	
Q.18	4 S	he was feeling	even after five hours of the	surgery.
		Groggy Grope	C) Haggard D) Pally	
Q.185	T	he new teacher showed	d no about hitting the st	udents.
		Quotation Qualms	C) Quakes D) Quarrel	
Q.186		ne parents were stunne mpletei	ed when they saw that children n the bedroom:	n had created
		Knack Mayhem	C) Groggy D) Dank	
2.187	Th	e culpable child	- some words to her mother fo	or pardoning his delinquency.
	A) R B) M	tude fumbled	C) Crazy D) Showy	
.188	Par COI	t - II: In each of the fol RRECT one and fill the	llowing question, four alternativ Circle corresponding to that le	ve sentences are given. Choose the tter in the MCQ Response Form.
	A. I	He asked, "Is your bro	other home?"	
	B. F	He asked "Is your bro	ther home?"	
		He asked, "Is your bro		
		le asked "Is your bro		

- Q.189 A. I was been to America for medical check up.
 - B. I had being to America for medical check up.
 - C. I have been to America for medical check up.
 - D. I has been to America for medical check up .
- Q.190 A. After breaking the glass, Ruby said "Please don't tell on me."
 - B. After breaking the glass Ruby said: "Please don't tell on me."
 - C. After breaking the glass, Ruby said: "Please don't tell on me."
 - D. After breaking the glass Ruby said: please don't tell on me.
- Q.191 A. It is healthful to eat a variety of food.
 - B. It were healthful to eat a variety of food.
 - C. It is healthful to ate a variety of food.
 - D. It were healthful to ate a variety of food.
- Q.192 A.We hadn't the foggy notion of the worker who tried to spoil the company's reputation.
 - B.We hadn't the foggiest notion of the worker who tries to spoil the company's reputation.
 - C.We hadn't the foggiest notion of the worker whom tried to spoil the company's reputation.
 - D.We hadn't the foggiest notion of the worker who tried to spoil the company's reputation.
- 2.193 A. We use to play football when we lived abroad.
 - B. We are used to play football when we lived abroad.
 - C. We used to play football when we lived abroad.
 - D. We have use to play football when we lived abroad.

Part - III: SPOT THE ERROR: In the following sentences some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains segment in the MCQ Response Form.

0.19	94 She had	one of the	se nicture c	hildren of	ten reproduced	
4	A		В	muren or	ten reproduced	
	in advert	tising leaf	ets and the	photogray	zure sections of the	
				C		
	Sunday I	papers.				
	D					
	= x475				In the attle	
Q.19		e mother i		O lock As	lam <u>in the attic,</u> C	
			B for boing so	nfined ma	de him breathless.	
	the mere	D	or being co	mmea ma	ide ilili breatiness.	
Q.196	Let's hur	ry. The bu	s <u>is</u> leaving	to the las	st stop.	
	A	В	C	D		
0 197	Despite a	ll my entl	nusiastic ch	nain of eff	ort, I could not attai	ned the
Q.IJ.	A	-		в		C
		sults to l	e crowned	with bril	liant success.	
	desire			D		
Q.198	Education	and eco	nomic prog	gress <u>alor</u>	ng with good	
			E 8		A	
	governanc	e is the	factor that	take a co	ountry <u>towards</u> quic	K
	go.	7	В	C	D	
	a Marianti sana a Maria a Maria a Maria		571			
	developme					
2 100	Ali and Irf	an have	to receive	the gues	ts at the reception o	of the
Q.133					В	
		A		a thoir	bags from the cars.	
	hotel, whil	e Amir b	ave to bri	ng their	bags from the cars.	
			C		D	
			1.55 <u>2</u> .65.5522.45.69 4 0	- sould	do for help but she	did not
200	Ruth was v	vonderin	g what sh	e could_		

A

В

For Booking MDCAT Past Papers Ur	nit-Wise Solved:
Type: -	
Your Name:	
City:	
Complete Address:	
Mobile Number:	
Book Name: MDCAT Past Papers	
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